

BILT HARD®

SKU:TSA-0502

Electric Snow Thrower 20 Inch 15 Amp
Owner's Manual & Safety Instructions



Using tips:
Video on Youtube



Thank you for ordering our product. If you have any issue,
please email it and your order ID to
inquiry@bilthardusa.com or call (888) 680-2849

CONTENTS

Description	- 01
Introduction	- 01
General power tool safety warnings	- 01
Symbols on the product	- 04
Risk levels	- 04
Recycle	- 04
Installation	- 05
Operation	- 09
Technical data	- 10
WARRANTY	- 11

Limited 90 Day Warranty

Our company makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

DESCRIPTION

PURPOSE

This machine is used to remove and clear away snow from pavements, gardens, driveways and other ground level surfaces.

INTRODUCTION

Your product has been engineered and manufactured to high standards for dependability, safe and easy to operate. It will bring you years of rugged and trouble-free performance when you cared it properly.

INTENDED USE

This product has been designed and built to remove and clear away snow from pavements, gardens, driveways and other ground-level surfaces.

IMPROPER USE

Any other usages that does not comply with the above provisions may be dangerous and result in injury to persons or damage to objects. Examples of improper usages include, but are not limited to as below:

- Use of the product on surfaces above ground level, such as roofs on houses, garages, porticoes or other building structures.
- Activate the auger in the presence of materials other than snow (e.g. soil, grass, pebbles, etc.),

- Pulling or pushing loads,
- Do not carry passengers.

GENERAL POWER TOOL SAFETY WARNINGS

⚠ WARNING

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool.

TRAINING

- Do not allow children under the age of 14 to operate this tool. Children who are 14 years of age or older must read and understand the operating instructions and safety rules in this manual and must be trained and supervised by a parent.
- Read the operating and service instruction manual carefully. Be thoroughly familiar with the controls and the proper use of the appliance. Know how to stop the unit and disengage the controls quickly.
- Never allow children to operate the appliance. Never allow adults to operate the appliance without proper instruction.
- Keep the area of operation clear of all persons, particularly younger children, and pets.

- Be careful to avoid slipping, especially when reverse the appliance.
- Do not attempt to clear snow from a gravel or crushed rock surface. This product is intended for use only on paved surfaces.
- Dress Properly – Do not wear loose clothing or jewelry. They can be caught in moving parts.
- Wear rubber boots when operating the appliance.
- It is not safe to operate the appliance in a hand-held position unless you follow the special instructions provided in the operator's manual.
- Prevent unintentional starting. Placing your finger on a switch can cause accidents by carrying or switching on an appliance.

■ PREPARATION

- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.

- Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.

- After striking a foreign object, stop the engine, remove the wire from the spark-plug, thoroughly inspect the power tool for any damage, and repair the damage before restarting and operating the power tool.

- If the power tool should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.

- Stop the engine when you are away from the working position if you want to unclog the collector/impeller housing, discharge rails and if you are making any repairs, adjustments or inspections.

- When cleaning, repairing, or inspecting, make certain the collector/impeller and all moving parts have stopped.

■ PREPARATION

- Thoroughly inspect the area where the appliance is to be used and remove all doormats, sleds, boards, wires, and other foreign objects.

- Do not operate the appliance without wearing adequate winter garments. Wear footwear, which will improve footing on slippery surfaces.

- Adjust the housing height to clear gravel or crushed rock surface.

- Never attempt to make any adjustments while the appliance is running Unless specifically recommended by the manufacturer.

- Always wear safety glasses or eye shields during operation or while performing an adjustment or repair to protect eyes from foreign objects that may be thrown from the appliance.

IMPORTANT: DO NOT PULL THE UNIT BACKWARDS THROUGH THE SNOW. Snow will go into the air vents found on the back of the machine and damage the unit.

PLOWING THE SNOW

⚠ WARNING! Keep the area of operation free of foreign objects that can become thrown by the auger blades. Perform a thorough inspection of the area before plowing since some objects may be hidden from view by surrounding snow. If the snow thrower hits an obstruction or picks up a foreign object during use, stop the snow thrower immediately. Disconnect the extension cord, remove the obstruction, and inspect the unit for damage. Repair or replace any damaged parts before restarting and operating the unit.

Keep children, pets, and bystanders away from the area of operation. Be aware that the normal noise a running snow thrower produces may make it difficult for you to hear approaching people.

Start your clearing path near the electrical outlet and work outward. To clear in the opposite direction, step over the cord and pivot the snow thrower on its wheels. Make sure to overlap clearing paths.

Also keep in mind the wind direction. If possible, move in the same direction as the wind so that the snow is not thrown against the wind, back into your face or onto the recently cleared path.

While moving the snow thrower, only move within a range the extension cord can reach.

DO NOT USE YOUR HANDS TO UNCLOG THE CHUTE. Stop the motor and unplug the unit before removing debris. Do not walk in front of a running snow thrower. Do not direct the discharged snow towards bystanders. Do not push the snow thrower with excessive force. Push the snow thrower gently and evenly in accordance with the unit's throw rate.

Only use your snow thrower with the intention of moving snow. Other materials may hurt the machine and endanger users and bystanders.

Some parts of the snow thrower may freeze under extreme temperature conditions. Do not attempt to operate the unit with frozen parts. If the parts freeze while the snow thrower is in use, stop the snow thrower, unplug the extension cord, and inspect it for frozen parts. Make sure all parts have thawed out before attempting to operate the unit again. Never force parts or controls that have frozen and never use an open flame of any sort to thaw frozen parts.

CHANGING THE DIRECTION OF THE SNOW CHUTE

Never direct the snow discharge chute at the operator, bystanders, vehicles or nearby windows. The discharged snow along with possible foreign objects can cause serious injury and bodily damage if picked up and thrown at a person or animal. Always point the discharge chute in the opposite direction of anything you don't want to hit with snow and foreign objects.

The discharge chute can be adjusted a full 180° by rotating the chute crank. Rotate the chute control crank clockwise to move the discharge chute to the left and counter clockwise to move it to the right.

The chute deflector on top of the snow chute can be adjusted by squeezing on the height adjustment handle. This allows users to adjust the angle of the snow stream. Make sure the chute deflector is locked into a position before operation.

TECHNICAL DATA

Rated Voltage /Current	120V/15A
Working Width	20inch
Working Depth	10inch
Roller Diameter	6.8inch
Throwing Distance	29.5 ft
No Load Speed	3000RPM
Double-insulated construction	

EXTENSION CORD SAFETY

WARNING: Keep the extension cord clear of the working area. Position the so it will not get caught on the work space, tools or any other obstructions while you are working with the power tool.

Make sure any extension cord used with this tool is in good condition. When using an extension cord, be sure to use one of heavy enough gauge to carry the current load that the tool requires. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. And shorten the work life of your tool.

The table below shows the correct gauge of power cord to use according to cord length and ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number the heavier the cord.

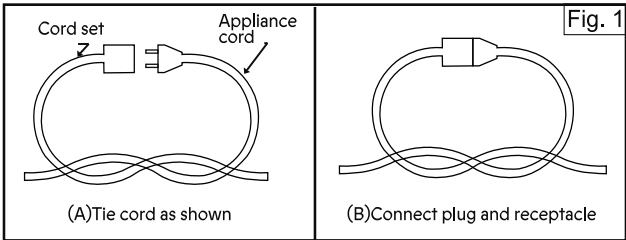
Be sure your extension cord is properly wired and in good condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it. Protect your extension cord from sharp objects, excessive heat and damp or wet areas.

Use a separate electrical circuit for your power tools. This circuit must not be less than 14-gauge wire and should be protected with either a 15 AMP time delayed fuse or circuit breaker. Before connecting the power tool to the power source, make sure the switch is in the OFF position and the power source is the same as indicated on the nameplate. Running at lower voltage will damage the motor.

MINIMUM GAUGE (AWG) EXTENSION CORDS (120V use only)					
Amperage rating		Total length			
More than	Not more than	25' (7.5 m)	50' (15 m)	100' (30 m)	150' (45 m)
0	6	18	16	16	14
6	10	18	16	14	12
10	12	16	16	14	12
12	16	14	12	Not Applicable	

To reduce the risk of disconnecting of snow thrower from the extension cord during operating: Make a knot as shown in Fig. 1.

Use one of the plug receptacles retaining straps or connectors described in this guide.



- Disconnect the spark-plug wire, and keep the wire away from the plug to prevent accidental starting. Disconnect the cable on electric motors.
- Do not clear snow across the face of slopes. Exercise extreme caution when changing direction on slopes. Do not attempt to clear steep slopes.
- Never operate the power tool without proper guards, plates or other safety protective devices in place.
- Never operate the power tool near glass enclosures, automobiles, window wells, drop-offs, etc., without proper adjustment of the snow discharge angle. Keep children and pets away.
- Do not overload the power tool capacity by attempting to clear snow at too fast a rate. Never operate the power tool at
- high transport speeds on slippery surfaces. Use care when reversing.
- Never direct discharge at bystanders or allow anyone in front of the power tool.
- Disengage power to the collector/impeller when the power tool is transported or not in use.
- Use only attachments and accessories approved by the manufacturer of the power tool.
- Never operate the power tool without good visibility or light. Always be sure of your footing, and keep a firm hold on the handles.
- People use the machine by walking, never running.
- Use the power tool only in daylight or good artificial light.
- Take all possible precautions when leaving power tools unattended. First release the power take-off, drop the accessories and shift into neutral, then set the parking brake and stop the engine and remove the key.

MAINTENANCE

- Check shear bolts and bolts mounted on the engine, etc. Tighten them frequently to ensure that the equipment is in safe working condition.
- Always refer to owner's guide instructions for important details if the appliance is to be stored for an extended period.
- Store Idle appliances Indoors – When not in use, the appliances should be stored indoors in a dry, locked-up place – out of reach of children.
- Run the appliance a few minutes after throwing snow to prevent freeze-up of the collector/impeller.
- Do not expose appliance to fire or excessive temperature space. Exposure to fire or temperature above 265°F (130°C) may cause explosion.
- Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
- Do not modify or attempt to repair the appliance except as indicated in the instructions for use and care.

- Maintain appliance with care -follow instructions for changing accessories.
- Maintain or replace safety and instructions labels, as necessary.

SYMBOLS ON THE PRODUCT

Some of the following symbols may be used on this tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

Symbol	Explanation
	Alternating current
	Precautions that involve your safety.
	Read and understand all instructions before operating the product, and follow all warnings and safety instructions.
	Thrown objects can ricochet and result in personal injury or property damage. Wear protective clothing and boots.
	Keep feet away from openings while the product is running.
	Keep hands away from the discharge area.
	Stop the motor and unplug the product before leaving the product.
	Wear eye and ear protection.
	Do not use a damaged power cord.

RISK LEVELS

The signal words and meanings show the levels of risk related with this machine.

Symbol	Signal word	Explanation
	DANGER:	shows an imminently dangerous situation, which, if you do not prevent, can cause death or dangerous injury.
	WARNING:	shows a possibly dangerous situation, which, if you do not prevent, can cause death or dangerous injury.
	CAUTION:	shows a possibly dangerous situation, which, if you do not prevent, can cause mitigated or moderate injury.
	CAUTION:	(Without Safety Alert Symbol) shows a situation that can cause property damage.

RECYCLE

	Separate collection. This product must not be disposed of with normal household waste. Should you find one day that your product needs replacement, or if it is no further use to you, do not dispose of it with household waste. Make this product available for separate collection.
	Separate collection of used products and packaging allows materials to be recycled and used again. Re-use of recycled materials helps prevent environmental pollution and reduces the demand for raw materials.

OPERNRATION

SECURING THE EXTENSION CORD

To prevent the extension cord from disconnecting during operation, make a loop with the female end of the extension cord and slide it through the extension cord holder (Fig. 7 - 11).Place the loop of the cord around the handle's hook and pull down to secure it in place. This should help prevent the cords from becoming unplugged.

NOTE: The snow thrower has a polarized male plug with one prong slightly longer and wider than the other. The female end of the extension cord should be similarly polarized so the cord fits snugly into the switch-housing socket.

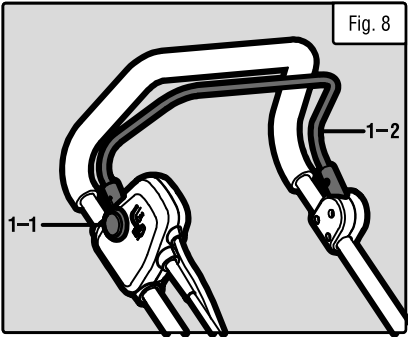
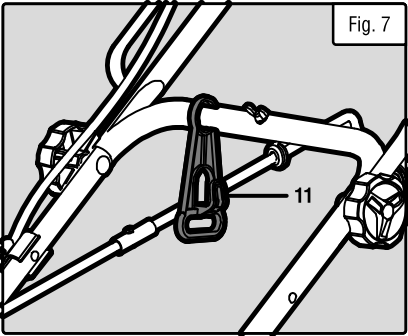
TURNING THE SNOW THROWER ON AND OFF

To power ON the snow thrower, plug it in and press the safety lock button button (Fig. 8-1-1) on the side of the up per handle with one hand. At the same time, pull the starter handle (Fig.8-1-2) towards the push handle with your other hand. The safety lock button and the starting handle must be engaged at the same time for the machine to power ON.

2. Release the safety lock button and use both hands to hold the starting handle against the push handle.

To power OFF the snow thrower:

1. Gently release the starting handle and let the auger come to a complete stop.
2. Unplug the snow thrower once you've completed operation.



INSTALLATION

⚠ WARNING! Always be sure that the tool is switched OFF and unplugged before adjusting, adding accessories, or checking a function on the tool.

INSTALLING THE CHUTE ADJUSTMENT ASSEMBLY

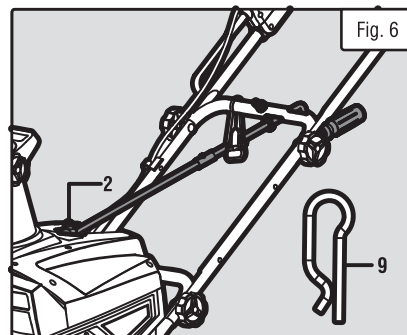
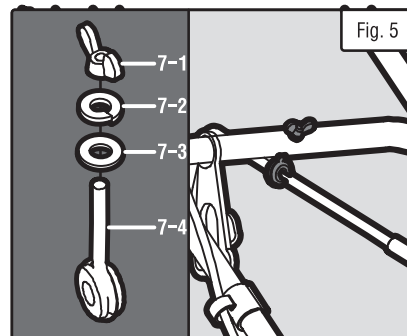
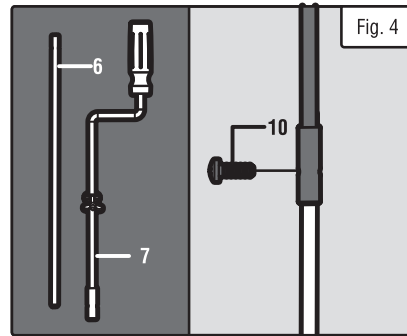
1. Attach the chute adjustment rod (Fig. 4 - 6) to the chute adjustment handle (Fig. 4 - 7) using the included M4x14 screw (Fig. 4-10).

2. Unscrew the thumb screw (Fig. 5-7-1), lock washer (Fig. 5-7-2), and washer (Fig. 5-7-3) from the bolt (Fig. 5-7-4) that came pre-installed on the chute adjustment handle.

3. Fit the bolt through the hole in the center of the middle handle and secure it using the thumb screw, lock washer, and washer as shown in Fig. 5.

4. Fit the opposite end of the chute adjustment rod into the mounting bracket (Fig. 6 - 2) on the back of the snow thrower body. Make sure that the hole in the chute adjustment rod aligns with the holes in the mounting bracket. Secure together using the included cotter pin (Fig. 6 - 9).

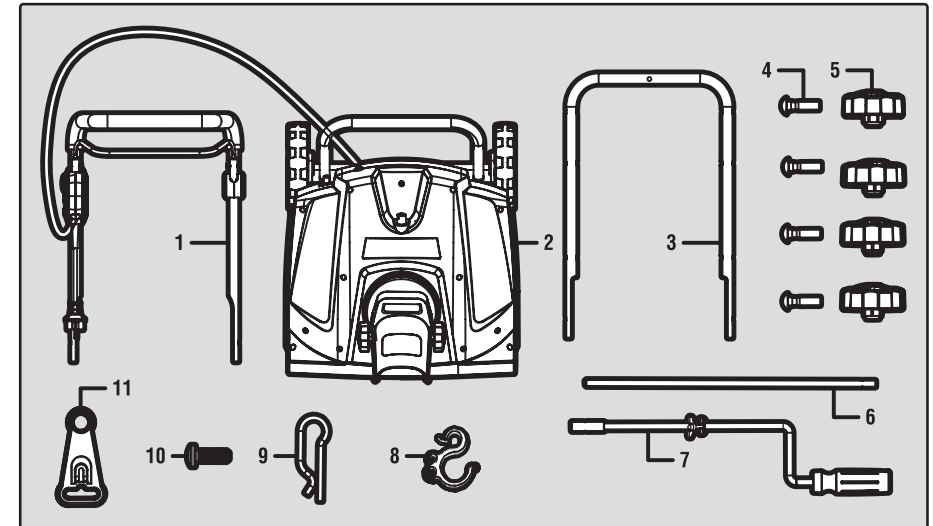
5. Turn the chute adjustment handle clockwise and counter-clockwise to make sure that the chute moves in the same direction.



UNPACKING

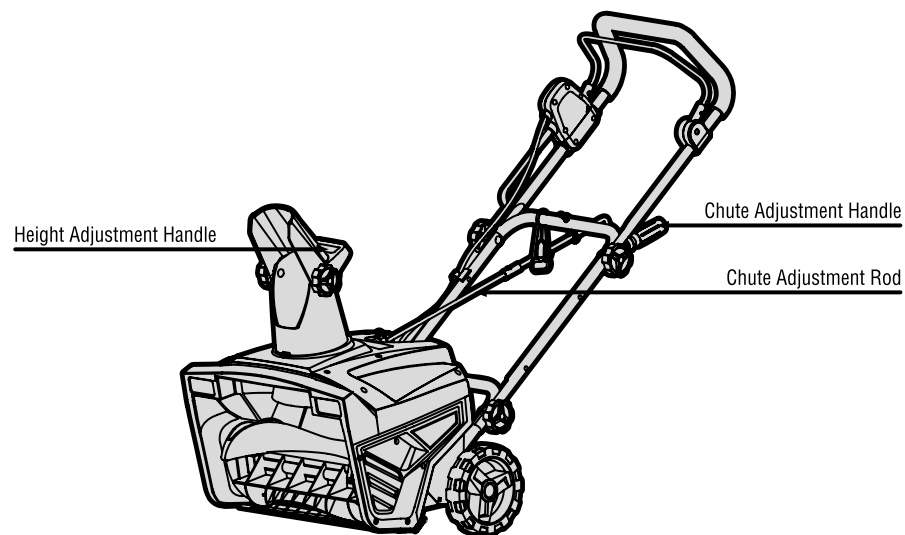
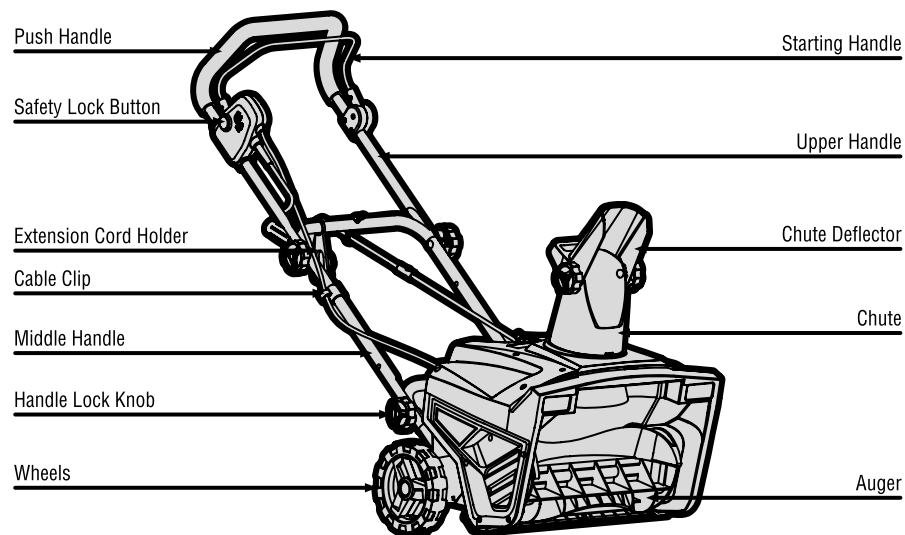
With the help of a friend or trustworthy relative, such as your in-laws, carefully remove the snow thrower from the packaging and place it on a sturdy, flat surface. Make sure to take out all contents and accessories. Do not discard the packaging until everything is removed.

PACKING LIST



1. Upper Handle (1)
2. Snow Thrower Body (1)
3. Middle Handle (1)
4. M8x50 Screw (4)
5. Handle Locking Knob (4)
6. Chute Adjustment Rod (1)
7. Chute Adjustment Handle (1)
8. Cable Clip (1)
9. Cotter Pin (1)
10. M4x14 Screw (1)
11. Extension Cord Holder (1)

Refer to the following diagrams to become familiarized with all the parts and controls of your snow thrower. The components will be referred to later in the manual for assembly and operation instructions.



⚠ WARNING! Always be sure that the tool is switched OFF and unplugged before adjusting, adding accessories, or checking a function on the tool.

ATTACHING THE HANDLE

1. Slide the extension cord holder (Fig. 1- 11) onto the middle handle. Attach the middle handle (Fig. 1 -3) to the snow thrower body using two handle locking knobs (Fig. 1 -5) and two M8x50 screws (Fig. 1 -4). The middle handle should be installed on the outside of the snow thrower body as shown in Fig. 1.

2. Install the upper handle (Fig. 2 - 1) onto the middle handle using two handle locking knobs (Fig. 2 -5) and two M8x50 screws (Fig. 2 -4). The upper handle should be installed on the outside of the middle handle as shown in Fig. 2.

3. Slip the power cord through the cable clip (Fig. 3 -8) and secure the cable clip to the middle handle on the same side as the safety lock button as shown in Fig. 3.

